

What is claimed is:

1. An organic electroluminescence panel in which a plurality of organic electroluminescence elements are formed above a substrate, each organic electroluminescence element including at least an organic layer including an organic emissive material between a lower individual electrode which is individually patterned for each pixel and an upper electrode, the organic electroluminescence panel comprising:

an edge covering insulating layer for covering peripheral end portions of the lower individual electrode, and

a mask supporting insulating layer, which is formed on an outer peripheral region with respect to the edge covering insulating layer and has a greater thickness than the edge covering insulating layer, for supporting a mask, which is used when forming the organic layer, on a top surface thereof,

wherein the organic layer terminates on an outer region with respect to the boundary between the edge covering insulating layer and the lower individual electrode, and on an inner region with respect to a region where the mask supporting insulating layer is formed, and the organic layer is individually patterned for each pixel.

2. An organic electroluminescence panel according to claim 1, wherein

the organic layer includes at least a hole injection layer and an organic emissive layer each formed by vacuum evaporation, and

each of the hole injection layer and the organic emissive layer terminates on the inner region with respect to a region where the mask supporting insulating layer is formed.

3. An organic electroluminescence panel according to claim 2, wherein

10 a charge transport layer is formed between the hole injection layer and the organic emissive layer and/or between the organic emissive layer and the upper electrode, and

the charge transport layer terminates on the outer region with respect to the boundary between the edge covering insulating layer and the lower individual electrode, and on the inner region with respect to a region where the mask supporting insulating layer is formed, and the charge transport layer is individually patterned for each pixel.

20 4. An organic electroluminescence panel according to claim 1, wherein

the edge covering insulating layer and the mask supporting insulating layer are formed by patterning a single insulating layer in respective predetermined patterns having different thicknesses by means of multi-phase exposure or gray-tone exposure.

5. An organic electroluminescence panel in which a plurality of organic electroluminescence elements are formed above a substrate, each organic electroluminescence element including at least an organic layer including an organic emissive material between a lower individual electrode which is individually patterned for each pixel, and an upper electrode, the organic electroluminescence panel comprising:

an edge covering insulating layer for covering peripheral end portions of the lower individual electrode, and

an upper insulating layer which is formed on an outer peripheral region with respect to the edge covering insulating layer and has a greater thickness than the edge covering insulating layer,

wherein the organic layer terminates on an outer region with respect to the boundary between the edge covering insulating layer and the lower individual electrode, and on an inner region with respect to a region where the upper insulating layer is formed, and the organic layer is individually patterned for each pixel.

6. An organic electroluminescence panel according to claim 5, wherein

the organic layer includes at least a hole injection layer and an organic emissive layer each formed by vacuum evaporation, and

each of the hole injection layer and the organic emissive layer terminates on the inner region with respect to a region where the upper insulating layer is formed.

5           7.    An organic electroluminescence panel according to claim 6, wherein

          a charge transport layer is formed between the hole injection layer and the organic emissive layer and/or between the organic emissive layer and the upper electrode, and

10           the charge transport layer terminates on the outer region with respect to the boundary between the edge covering insulating layer and the lower individual electrode, and on the inner region with respect to a region where the upper insulating layer is formed, and the charge transport layer is  
15 individually patterned for each pixel.

          8.    An organic electroluminescence panel according to claim 5, wherein

          the edge covering insulating layer and the upper  
20 insulating layer are formed by patterning a single insulating layer in respective predetermined patterns having different thicknesses by means of multi-phase exposure or gray-tone exposure.

25           9.    An organic electroluminescence panel in which a plurality of organic electroluminescence elements are formed

above a substrate, each organic electroluminescence element including at least a hole injection layer and an organic emissive layer between a lower individual electrode which is individually patterned for each pixel and an upper electrode,

5 the organic electroluminescence panel, comprising:

an edge covering insulating layer for covering peripheral end portions of the lower individual electrode, and

a mask supporting insulating layer, which has a greater thickness than the edge covering insulating layer, for  
10 supporting a mask, which is used when forming an organic layer, on a top surface thereof, wherein

the hole injection layer is formed covering the lower individual electrode, the edge covering insulating layer, and the mask supporting insulating layer, and

15 the organic emissive layer is formed between the upper electrode and the hole injection layer and terminates on an outer region with respect to the boundary between the edge covering insulating layer and the lower individual electrode, and on an inner region with respect to a region where the mask  
20 supporting insulating layer is formed, and the organic emissive layer is individually patterned for each pixel.

10. An organic electroluminescence panel according to claim 9, wherein

the hole injection layer has a thickness which is smaller than 10 nm, and the organic emissive layer has a total thickness of 10 nm or greater.

5        11. An organic electroluminescence panel according to claim 10, wherein

        a charge transport layer is formed between the hole injection layer and the organic emissive layer and/or between the organic emissive layer and the upper electrode, and

10        the charge transport layer terminates on the outer region with respect to the boundary between the edge covering insulating layer and the lower individual electrode, and on the inner region with respect to a region where the mask supporting insulating layer is formed, and the charge transport layer is  
15 individually patterned for each pixel.

        12. An organic electroluminescence panel according to claim 9, wherein

        the edge covering insulating layer and the mask supporting  
20 insulating layer are formed by patterning a single insulating layer in respective predetermined patterns having different thicknesses by means of multi-phase exposure or gray-tone exposure.

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